

Operation

1. Intake and compression occur in the compressor as the impeller rotating at high speed pulls in ambient air and compresses it. The turbine compressor is a single-stage centrifugal compressor.

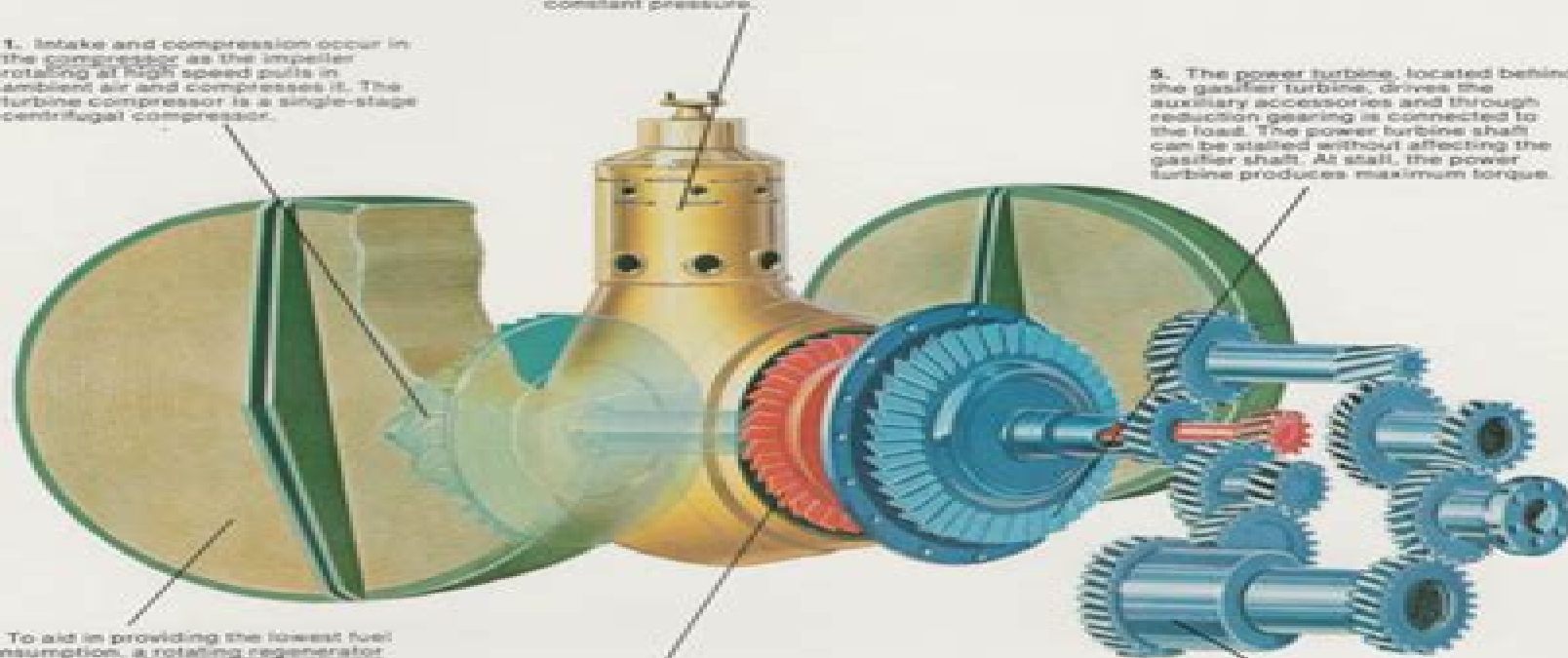
2. To aid in providing the lowest fuel consumption, a rotating regenerator is added, which takes heat from the exhaust and uses it to preheat the incoming air to the combustion chamber. This conservation of exhaust heat significantly improves fuel economy.

3. The gas turbine has a separate combustion section—and within this section, fuel is added; and the combustion process takes place at a constant pressure.

4. The higher volume of hot gases then passes to the gasifier turbine—or first stage turbine—where the expansion of gases produces power to drive the compressor and the engine accessories.

5. The power turbine, located behind the gasifier turbine, drives the auxiliary accessories and through reduction gearing is connected to the load. The power turbine shaft can be stalled without affecting the gasifier shaft. At stall, the power turbine produces maximum torque.

6. The unique feature in Allison GT 404/505/605 industrial gas turbines is Power Transfer. By introducing Power Transfer into the cycle, there is a positive mechanical linkage, through a hydraulic clutch pack, between the gasifier and power turbine shafts. The clutch plates can be engaged or continuously slipped. This capability provides a big advantage in part load fuel economy since it keeps operating temperatures close to their design point and it enables the engine to act as a dynamic brake.



Operating Manual Allison Gas Turbines

SJ Ball



Operating Manual Allison Gas Turbines:

Operating Manual, Allison Gas Turbines General Motors Corporation. Detroit Diesel Allison Division, 1973 This publication provides descriptive information operating instructions and performance data for the Allison mode 501 D13 and D13A prop jet engines This manual is written primarily for aircrews and those concerned with engine operation The procedures and limits in this manual constitute Allison s official recommendations for engine operation and thereby take precedence over any other Allison publication Introduction p 1 1 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1976 Operation and Maintenance Manual General Motors Corporation. Detroit Diesel Allison Division, 1974 **Catalog of Copyright Entries, Fourth Series** Library of Congress. Copyright Office, 1978-10

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